UNITED STATES NAVAL INSTITUTE PROCEEDINGS

For the advancement of professional, literary, and scientific knowledge in the Navy

Volume 60
Whole Numbers 371-82
1934

Edited by

COMMANDER A. B. ANDERSON, *United States Navy*

United States Naval Institute
Publication Office: Menasha, Wisconsin
Editorial and Business Office: Annapolis, Maryland
Advertising Department: **McGill Bldg., Washington, D.C.**

Engin Lib
Wash

INDEX FOR VOLUME LX, 1934

January,	No. 371, pp.	1–148	July,	No. 377, pp.	889–1040
February,	No. 372, pp.	149–300	August,	No. 378, pp.	1041–1192
March,	No. 373, pp.	301–448	September,	No. 379, pp.	1193–1344
April,	No. 374, pp.	449–592	October,	No. 380, pp.	1345–1504
May,	No. 375, pp.	593–736	November,	No. 381, pp.	1505–1656
June,	No. 376, pp.	737–888	December,	No. 382, pp.	1657–1805

Page

A

Abyssinia
Japanese relations ... 1626
Map ... 1626
Accidents—Aviation
Akron (U.S.): See Airships
Japan ... 720
Accidents—Vessels
Andromeda (Eng.) ... ill. 189
Bidwell (U.S.) ... ill. 1793
Brion (Neth.) ... 420
Chicago (U.S.) and *Silverpalm* (Eng.) 118, 1429
Coast Guard activities ... ills. 498–502, 1224
Conflicting Signals. R. F. Farwell ... 333
Critique of American Collision Law ... 405, 1429
Cruiser-fishing boat case ... 701
Devonshire (Eng.) ... ill. 1217
Fog, Law in. R. F. Farwell ... 784, 833, 1429
Fulton (U.S.) ... 703, 1036
Lloyd's statistics ... 1456
Missouri (U.S.) ... ill. 1045
Morro Castle (U.S.) ... 1782–83
Nautilus (U.S.) ... 703
Nelson (Eng.) ... 424
Nina and *Galena* (U.S.) ashore ... ill. 960
Olympic-Nantucket Shoals Lightship ... 1019
Schooner ashore ... ill. 499
Schurz (U.S.), former *Geier* (Ger.), and *Florida* ... 1280, ill. 1282
Specialists and responsibility ... 266, 1036
Thistlemore (Eng.) ... ill. 500
Tomotsuru (Jap.) . 711, 863, 1011, 1017, 1165, 1319
Unruly Rules of Road. P. P. Welch and E. B. Perry ... 641
Vanished Ships. C. Lathrop ... 949
Victoria, Tryon and. R. E. Bassler ... 1270
Washington (U. S. survey brig) ... ill. 190
Acoustics: See Sound
Addonizio, L. ... 547
Administration and organization
Books, Playing Safe with. K. C. McIntosh ... 614
Correspondence, Code for. A. H. Miles ... 234, 837, 993
Management and Command ... 103
Nation in Arms. H. J. Ray ... 205
Procurement Planning for War ... 247, 834
Strikers, Selection of. E. D. McEathron ... 655
Supply Corps, Training Reserve. J. J. Lennox ... 647
Working Division. C. E. Perkins ... 21, 407, 689
Aërial warfare: See Warfare, Aërial
Aërology: See Meteorology
Aëronautical Society of America ... 309
Ageton, A. A.: *Air Almanac* ... 1261, 1291
Air Almanac. A. A. Ageton ... 1261, 1291

Page

Air mail: See Airways
Aircraft carriers (Ship names: See Warships)
Flying Deck Cruiser. J. A. Collett ... 1545
England: Experience before new construction ... 125
Sweden: Cruiser type ... 132
Airports
Air Transport and Security. E. E. Wilson ... 177, 1138
Lakehurst, N.J. ... ills. 918–19
Naval Reserve ... ill. 394
Orbetello, Italy ... ill. 1131
Pensacola, Fla. ... ills. 389, 391, 393, 396
Sunnyvale, Calif. ... ills. 662, 1507
Airships
Airships—or Not? ... 104
Akron (U.S.) ... ills. 918–20
Akron, Loss of. C. E. Rosendahl ... 921
Akron, Method of Search for. G. M. Richardson 470
Even the Birds. F. L. Dugan ... 44
Graf Zeppelin (Ger.) ... 1173
Lighter-than-Air Craft and Line Squalls. F. J. Nelson ... 369, 397, 1142
Los Angeles (U.S.) ... 435, 1325, 1339
LZ-129 (Ger.) ... 1460
Macon (U.S.) . 871, 1175, ills. 661, 664, 803, 1507
Planes of *Macon* (U.S.) ... ill. 1506
Trapeze of *Macon* (U.S.) ... ill. 661
Value of Airships. H. V. Wiley ... 665
ZMC-2 (U.S.) ... 1792
Airways
Air Transport and Security. E. E. Wilson . 177, 1138
Mail, Army flies the ... 868
Seadromes, Atlantic ... 281
South Atlantic ... 576, 719, 1636, 1791
Akers, G. W.
National Policies and Defense ... 897
Promotion of Good Will for Navy ... 1390
Alaska: Aleutian Islands survey ... 1158
Albania: Durazzo ... 276
Alfonso, King, and W. Wright ... ill. 301
Anchor chains ... 1801
Anchoring Diagrams. O. L. Downes . 73, ills. 69–72
Anderson, B.
Influence of Public Opinion upon War ... 961
Study of Tropical Hurricane ... 183, 986, 988
Anecdotes
Civil War Parallel. L. H. Bolander ... 233
Retrospection. E. R. Wilson ... 1715
Sothern. W. T. Cluverius ... 345
Ansel, W. C. ... 689
Anson, G. A. ... 1689, ills. 1697–98
"Antarctic": *Bear of Oakland* ... ill. 1642
Arabia: Boundary dispute ... 999
Argentina
Buenos Aires ... ill. 542

Page

Argentina (Cont.)
Navy ... 1320
Artificiality, Peace-Time. F. G. Percival ... 1665
Asiatic Fleet: Retrospection. E. R. Wilson ... 1715
Assassinations
Alexander, King of Yugoslavia ... 1760
Dollfuss, E., Austrian chancellor ... 1293
Duca, I. G., Rumanian premier ... 252
Sandino, A., Nicaragua ... 555
Athletics
Baseball practice at sea ... ill. 1029
Physical Prowess and Leadership. J. M. Kennaday ... 947
Australia: Navy ... 1012, 1159
Austria
Civil war ... 552
Constitution ... 692, 841
Dollfuss, E., assassinated ... 1293
German relations ... 410, 1435
Inland Navy of Austria ... 105
Italian relations ... 1435
Vienna ... ill. 539
Aviation—Aircraft (See also names of types)
Air Transport and Security. E. E. Wilson ... 177, 1138
America's Aëronautical Pioneers. H. S. Mazet ... 309, ills. 301–8, 325–32
English types ... 575, 1172, 1635, 1787
Flutter control ... 436
Formation flying ... ills. 390, 395, 805, 1347
French types ... 1460
Hoisting plane on board ship ... ill. 915
Italian types ... 1779, ills. 1130, 1132–33
Lindbergh's 1933 seaplane ... ill. 659
Navy types (U.S.) ... ills. 389–90, 392, 395, 804–5 ... 1136, 1506, 1509
Pan-American Sikorsky ... 716, 1461
Racing types for military use ... 281
Russian types ... 872, 1326
Tailless airplane ... 1458
Transports ... 281, 435, 573, 717
Aviation—Brazil: Reorganization ... 436
Aviation—Distance flights
Army: Washington–Alaska ... 1174
Balbo: Italy–United States and return ... 1121
England–Australia race ... 1174, 1324, 1786
Ingalls' South American ... 871
Japan plans ... 1789
Lindbergh: See Lindbergh, C. A.
Mexico–Spain, Proposed ... 720
Norfolk–Coco Solo ... ill. 804
San Diego–Alaska and return ... 1176
San Francisco–Hawaii ... 432, ill. 1136
Aviation—England
Civil ... 1635
Navy, not Air Force, main defense ... 421
Records ... 1172
Research ... 282, 1456
Target practice ... 281, 436
Aviation—France
Program ... 282, 575
Records ... 1176
Aviation—Italy
Air Ministry officers ... ill. 1129
Communications for Italian Transatlantic Flight. E. W. Stone ... 1121
Records ... 871, 1173, 1791
Aviation—Japan
Accidents ... 720
Civil ... 1636, 1788
Construction ... 436

Page

Aviation—United States
America's Aëronautical Pioneers. H. S. Mazet. 309
Baker report, Army Air Corps ... 1323
Construction ... 718
Exports ... 1022
Naval Aviator in Reserve. H. C. Reisinger ... 381
Records ... 136, 435, 717
Research ... 574, 718, 1639
Azimuth, New Formula for. E. B. Collins ... 973

B

Bakenhus, R. E.: British Memorial to United States Navy in World War ... 1720
Baker Island ... ill. 31
Baldwin, H. W. ... 100
Bali: Fisherman ... ill. 541
Balkan States ... 411, 998, 1146, 1760
Ballasting a Navy Tanker ... 1755
Balloons: Stratosphere flights ... 136, 1788
Ballreich, C. J. ... 835
Barbary Wars: See Tripoli
Barleon, J. S.: Naval Academy—A Suggested Mission ... 1268
Baseball practice at sea ... ill. 1029
Bases: See Naval stations
Bassler, R. E.: Tryon and *Victoria* ... 1270
Bateman, A. H.: Alas—for Romance ... 347
Battles
Basque Roads: English fireships and French fleet ... ill. 452
Centurion (Eng.) and *Cavadonga* (Sp.) ... ill. 1698
Constellation (U.S.) and *Insurgente* (Fr.) ... ill. 958
Constitution (U.S.) and *Guerriere* (Eng.) ... 1209
Copenhagen: Passage of Sound ... ill. 455
Coronel: See Coronel
Dogger Bank ... ill. 1048
Falklands: See Falklands
Fort Fisher, N.C. ... ill. 156
Gipsy (U.S.), *Hermes*, and *Belle Poule* ... ill. 453
Guillaume Tell (Fr.) and English squadron ... ill. 350
Hebrus (Eng.) and *Etoile* (Fr.) ... ill. 351
Hermes (Eng.) and *La Mouche* (Fr.) ... ill. 1218
Hornet (U.S.) and *Penquin* (Eng.) ... ill. 954
Jutland: See Jutland, Battle of
Le Comtesse Emeriau (Fr.) capturing *Sicile* (Sp.) and *Darwey* (Eng.) ... ill. 1219
Lissa ... ill. 891
Mistaken Attacks in World War. L. Doughty, Jr. ... 1729
Monmouth (Eng.) and *Fourdroyant* (Fr.) ... ill. 155
Quallah Battoo ... ill. 152
Queen of the West (U.S.): Loss ... ill. 150
Recruit (Eng.) and French 74 ... ill. 454
St. Fiorenzo (Eng.) and *La Psyche* (Fr.) ... ill. 153
St. James's Day: Second Dutch War ... ill. 892
St. Vincent: Defeat of Don Miguel ... ill. 889
Texel ... ill. 1047
U-58 (Ger.), Capture of. R. B. Carney ... 1401
Battleships (Ship names: See Warships)
Large vs. small ... 1303, 1310, 1314–15
Battleships—England: Plans for new ... 1446, 1448
Battleships—Italy
Carrier conversion plan dropped ... 128
Modernization ... 1779
35,000-ton planned ... 1163, 1316, 1451
Battleships—Japan: Modernization ... 1165, 1630
Battleships—United States
Anchored in Hudson River ... ill. 1659
Forecastle ... ill. 1529
Our First Battleship. H. A. Gosnell. 357, ills. 352–56
Outward bound: Painting ... 1645

Page

309
1323
718
1022
381
717
1639
973

1720
31
100
541
1760
1755
1788
835

1268
1029

1270
347

452
1698
958
1209
455

1048

156
453
350
351
1218
954

1219
891

1729
155
152
150
454
153
892
889
1047
1401

4–15
1448

128
1779
1451
1630

1659
1529
2–56
1645

Page

Battleships—United States (Cont.)
35,000-ton proposed 1304
Beaufort Wind Scale. F. J. Nelson 1546
Beaumont, A.: Paintings 1041–44, 1332–35, 1393–95 1645–46
Belgium: King Albert, Death of 554
Bells, Ships'
Admiralty sells 1160
New Orleans (U.S.): I. R. Lloyd ..... ill. 1496
Blockade: Commerce Destruction—Past and Future. F. Pratt 1513
Bloomster, E. L.: Paintings ... 1089–91, 1329–31, 1336
Blue Eagle 317
Bolander, L. H. 1150
Civil War Parallel 233
Bolivia: See Chaco boundary dispute
Bombing: See Warfare, Aërial
Book reviews
Air Almanac. A. A. Ageton 1261, 1291
Ansted, A.: *Dictionary of Sea Terms* 114
Armaments Year-Book, 1934 1765
Armstrong, H. F.: *Europe Between Wars* 1438
Bartlett, R. A.: *Sails Over Ice* 1764
Beard, C. A.: *Idea of National Interest; An Analytical Study in American Foreign Policy* 1614
Brown's Flags and Funnels 1001
Brown's Nautical Almanac, 1934 115
Butcher, H. B.: *Battle of Trenton, Including Its Historical Setting* 1149
Colby, E.: *American Militarism* 1763
Corbino, E.: *La Battaglia Dello Jutland* 413
Crowther, S.: *America Self-Contained* 256
Delage, E.: *La Guerre Sous les Mers* 1151
Desbrière, E.: *Naval Campaign of 1805: Trafalgar* 112
Discovery of the Amazon 1766
Dutton, B.: *Navigation and Nautical Astronomy* 1300
Earle, S.: *Chesapeake Bay Country* 1615
Fraser, C.: *Story of Aircraft* 257
Infantry in Battle 1000
Jane's All the World's Aircraft, 1933 412
Jane's Fighting Ships, 1933 254
Kenworthy, J. M.: *Sailors, Statesmen—and Others* 1034
Kerr, M.: *Navy in My Time* 258
Lane, F. C.: *Venetian Ships and Shipbuilders of the Renaissance* 695
Lee, A.: *America Swings to the Left* 255
Longridge, C. N.: *"Cutty Sark"* 259
Lubbock, B.: *Opium Clippers* 844
McEntee, G. L.: *Italy's Part in World War* ... 1439
Men, Fish, and Boats ..... 1149, ills. 1180–84
Middlebrook, L. F.: *Captain Gideon Olmstead, Connecticut Privateersman* 295
Multiple-Lens Aërial Cameras in Mapping 114
Muncaster, C.: *Rolling Round the Horn* 697
Nickerson, H.: *Can We Limit War?* 843
Palmer, A. W.: *Orientals in American Life* 1615
Piracy in the Levant 1150
Pratt, F.: *Heroic Years. Fourteen Years of the Republic* 1764
Puleston, W. D.: *High Command in World War* 1298
Scheer, R.: *Germany's High Sea Fleet* 1766
Schuman, F. L.: *International Politics* 414
Spaight, J. M.: *Air Power and War Rights* 697
Spencer, C. L.: *Knots, Splices, and Fancy Work* . 1001
"Stand-By" Nautical Telegraph and Radio Code 1001
Stark, H. C.: *Instrument Flying* 696
Tannenbaum, F.: *Whither Latin America?* 1002
Von Kühlwetter, F.: *Skagerrak* 256
Von Waldeyer-Hartz, H.: *Admiral von Hipper* . 845

Page

Book Reviews (Cont.)
Webster, H. H.: *Travel by Air, Land, and Sea* .. 412
Wulff, O. R.: *Die Osterreichisch-Ungarische Donauflottille im Weltkriege, 1914–1918* 1438
Bookkeeping: See Administration and organization
Brandt, E. S. R.: National Defense, 1934 317
Brazil
Amazon, Orellana's voyage down 1766–67
Navy 132, 864, 1452, 1780
Sailing barge or lancha ..... ill. 1647
Breadmaking contest, English 1448, 1500
Breckinridge, J. C.: Evaluation of Tactical School 1537
Broadbent, E. W.: Joint Military-Naval Operations 321, 837
Brown, C. R.: Promotions, Past and Future .. 157, 990
Brownson, H. G.: Technical Aspects of Jutland ... 1249
Bryant, S. F.: United States and Russia in World Equilibrium 1405
Bulgaria: Dictatorship established 998
Bullard, Mrs. B. S.: *Cuttlefish* sponsor ... 588, ill. 579
Byrd, R. E.: *Bear of Oakland* ..... ill. 1642

C

Cachets, Naval 1231
California
John Berrien Montgomery. J. M. Ellicott 533
Los Angeles: Shadow of *Macon* ..... ill. 663
Santa Ana or Desert Storm. W. A. Mason ..... 56, ills. 65–66
Sunnyvale ..... ills. 662, 1507
Calver, G. W.: Coronary Sclerosis 1214
Cameras
Electric timer and high-speed 434
Fog-piercing 713, 1022
Huge Coast and Geodetic Survey 1309
Machine gun 435
Canals (See also Panama Canal)
Tokyo, Japan ..... ill. 1420
Canoes: Samoa, Native Craft of. A. T. Emerson ..... 1549, ills. 1553–57
Carney, R. B.: Capture of *U-58* 1401
Catapults
English ships 423
Planes leaving ..... ills. 1025, 1797
Westfalen (Ger.) 576
Census, World naval 858
Ceylon: Fishermen ..... ill. 538
Chaco boundary dispute ..... 251, 409, 555 ..... 693, 841, 994–95, 1147, 1296, 1436, 1612
Chambliss, W. C.: Air Bombardment Regulation. 1577
Charts, Ocean: See Oceanography
Chemical warfare: See Warfare, Gas
China
Anking and pagoda ..... ill. 215
Chungking's floating city ..... ill. 218
Communication, Lines of, and Their Effect on Strategy. F. H. Wells 1519
Compass, Charts, and Methods of Navigation. F. H. Wells 359
Geography 1519
Historical Background of China's Troubles. R. A. Dawes 817
Hongkong: Dewey's fleet, 1898 ..... ill. 449
Junks ..... ills. 214, 218
Kunglington Rapids, Yangtze ..... ill. 213
Map 1523
Navy 1780
Revolt 111, 408, 421, 555
River steamers ..... ills. 216, 220
Wanhsien ..... ill. 217

Page

China (Cont.)
Yangtze. G. C. Manning ... 221
Chinese Eastern Railway ... 1437, 1613
Christening, Ship
Champagne ... 295, 588
"Naming ceremony" suggested as correct term ... 420
Civil service: Candidates for Public Servants. D. A. Frost ... 1713
Civil War
Civil War Parallel. L. H. Bolander ... 233
Naval Academy, Confederate States. W. P. Folk ... 1235
Old Man River, 1863. H. G. Dohrman ... 809
Clark, E. S., Jr.: Inexpensive Handmade Sextant. 908
Clippers: See Sailing ships
Cluverius, W. T.: Sothern ... 345
Coast and Geodetic Survey: Consolidation proposal ... 121
Coast Guard: See United States
Code of signals: See Signals
Collett, J. A.: Flying Deck Cruiser ... 1545
Collins, E. B.: New Formula for Azimuth ... 973
Collisions: See Accidents—Vessels
Colombia
Leticia: See Leticia dispute
Navy ... 712
Color-blindness ... 125
Command: See Administration and organization
Commerce Destruction—Past and Future. F. Pratt ... 1513
Communications
Chinese Lines of Communication and Their Effect on Strategy. F. H. Wells ... 1519
Discrepancies, Momentous. C. C. Wood ... 1225
Italian Transatlantic Flight. E. W. Stone ... 1121
Merchant marine ... 1803
Pigeons ... 268
Comparative strength of navies ... 1464
Conard, C.: Naval Armament Limitation ... 9, 545
Condon, E. U.: Food and Theory of Probability ... 75, 97–98
Confederate States Naval Academy. W. P. Folk .. 1235
Convoys or evasive routing ... 269
Cook, A. M. ... 1603
Cook, Death of Captain J. ... ill. 154
Coronary Sclerosis. G. W. Calver ... 1214
Coronel and Falklands, Background of. C. C. Wood ... 939
Correspondence, Code for. A. H. Miles .. 234, 837, 993
Courts-martial, Naval ... 173, 560
Cradock, C. ... 939
Crash boat, Naval Air Station, Pensacola ... ill. 396
Craven, F. S. ... 1602
Cruise around world, 1907–09: Fleet at San Francisco ... ill. 456
Cruisers (Ship names: See Warships)
Flying Deck Cruiser. J. A. Collett ... 1545
Functions ... 1620
Cruisers—England
Armament ... 1309
Compared with foreign ... 123, 701, 706
Cruisers—Japan: *Mogami* class battery ... 430
Cruisers—Sweden: Aircraft carrying ... 132
Cruisers—United States
Design of 10,000-ton ... 118
Maneuvering ... ill. 1032
Cuba
Revolution ... 251, 409, ills. 437–39
United States relations ... 409, 995, 1147, 1436
Cummings, D. E.: Preface to Freedom of Seas ... 486

Page

Currents: See Oceanography
Curtiss, G.: Flying activities ... 312, ill. 307

D

Dardanelles expedition: See World War
Davis, W. S. G. ... 246
Dawes, R. A.: Historical Background of China's Troubles ... 817
Decibel: See Sound
Defeat Inevitable: E. M. Eller ... 1201
Denmark: Navy ... 1019, 1452
Dennison, R. L.: A Noise Annoys ... 903
Depression ... 317
Depth charge gun ... ill. 1400
Desert storm (Santa Ana): See Meteorology
Destroyers (Ship names: See Warships)
Cruisers, Miniature ... 1773
Mistaken Attacks in World War. L. Doughty, Jr. ... 1729
Destroyers—England
Ages ... 124, 708, 1012
Depot ships ... 1623, 1776
Names ... 1312
Destroyers—France
Speeds ... 126, 426
Super-destroyers ... 709, 1777
Destroyers—United States
Balboa, Moored at ... ill. 1027
Smoke screen ... ill. 1393
Stricken from list ... 1308
Detonator, Standardizing U. S. Naval Electric. C. E. Munroe ... 505
Dewey, G.
Fleet at Hongkong, 1898 ... ill. 449
Palmer, F.: Autobiography re ... 445
Dictatorships vs. democracy ... 694
Diesels: See Engines
Directory, Fleet: New York City ... ills. 1727–28
Dirigibles: See Airships
Disarmament: See Limitation of armaments
Discipline: Higher Standard. D. Williams ... 171
Division officers ... 21, 407, 655, 689
Dogger Bank, Battle of ... ill. 1048
Dohrman, H. G.: Old Man River 1863 ... 809
Doughty, L., Jr. ... 1151
Mistaken Attacks in World War ... 1729
Downes, O. L.: Anchoring Diagrams ... 73
Dry docks: *ARD-1*, U. S. Navy ... 1443
Dugan, F. L.: Even the Birds ... 44
Du Pont, S. F.: Civil War Parallel. L. H. Bolander ... 233
Dyott, G. M., and Walden airplane ... ill. 332

E

Earle, R. ... 1439
Earthquakes: Seismology and Navy. R. H. Knight ... 1110, 1137
Education (See also under countries)
Joint operations study ... 321
Landing Operations, Teaching, with Models. C. G. Richardson ... 796
Public Servants, Candidates for. D. A. Frost ... 1713
Study neglected for sports ... 731
Supply Corps, Training Reserve. J. J. Lennox .. 647
Tactical School, Evaluation of. J. C. Breckinridge ... 1537
Eller, E. M. ... 548
Is Defeat Inevitable? ... 1201
Ellicott, J. M.: John Berrien Montgomery ... 533
Ellis, E. B. ... 1606
Emerson, A. T.: Native Craft of Samoa ... 1549

Page

307

246

817

1201
1452
903
317
1400

1773

1729

1012
1776
1312

426
1777

1027
1393
1308

505

449
445
694

27–28

171
689
1048
809
1151
1729
73
1443
44

233
332

1439

1137

321

796
1713
731
647

1537
548
1201
533
1606
1549

Page

Engines—Aircraft
Cooling methods 433
Cowling, New type 575
Development: United States and Europe 572
Isotta-Fraschini ..... ill. 1135
Engines—Marine
Diesel-Driven Surface Craft. J. O. Huse 1564
Economical, for tramps 1021, 1323
England
Far East policy 999
Japanese relations 556, 694
London, Tower of ..... ill. 722
England—Navy
"Admirals' conference" on Pacific defense 424
Aircraft vs. ships as main defense 421
Bells, Ships', Admiralty sells 1160
Breadmaking contest 1448, 1500
Budget 703–5, 718, 854, 1311
Comparisons 261. 1464
Courts-martial 560
Education 123
Employment schedules 1160–61
Motor boats 126, 563
Navy Week 1312, 1447, 1449, 1499
Personnel, promotion, retirement 124, 423, 560 562–63, 707, 856, 859, 1011, 1013, 1310, 1448, 1622
Publicity: "Silent service" 561
Recruiting 424
Selborne Scheme: Cadet entry 123
Specialists 266, 1036
Tryon and *Victoria*. R. E. Bassler 1270
Vessels building ..... 123, 262, 267, 424, 562 ..... 704–8, 859, 1012, 1450, 1623–24, 1774–76
Vessels laid down, 1922–33 848–49
Enochs, B. 1138
Entertainment: Mine Force, Scotland 345
Esprit de corps 171
Estonia
Dictatorship established 1762
Navy 1168
Ethiopia: See Abyssinia
Evans, F. E.: French Campaign in Morocco 80
Evans, R. D. ..... ill. 880

F

Falklands, Background of Coronel and. C. C. Wood 939
Farwell, R. F. 405, 1429
Conflicting Signals 333
Law in Fog 784, 833, 1429
Fate: Is Defeat Inevitable? E. M. Eller 1201
Father of our Navy 145
Faust, H. P.: Riding a Hobby: Collecting Naval Postmarks 1231
"Field day" ..... ill. 193
Finland: Navy 1780
Fisher, G. J. B. 400
Dardanelles question 732
Fiske, B. A.: Re "Navy" and "Fleet" 1033
Fitness, Physical
Advice to Fellow-Middle-Agers. J. B. Kaufman 50
Coronary Sclerosis. G. W. Calver 1214
Leadership, Physical Prowess and. J. M. Kennaday 947
Pleasure and Pain of 1918. W. H. Michael 1705
Flags (See also Signals)
American: First foreign recognition ..... 1801, ill. 149
Fleet reviews
New York City, 1934 ..... 881, 1010, 1155 ..... ills. 1065–72, 1177–79, 1193–1200, 1349–52

Page

Fleet Reviews (Cont.)
..... 1489, 1657–64, 1726–28, 1794–95, 1798–1800
New York City, 1934: Painting 1396
Oyster Bay, 1906: *Mayflower* ..... ill. 880
Florida: Pensacola ..... ills. 389, 391, 393, 396
Flying Deck Cruiser. J. A. Collett 1545
Fog (See also Instruments)
Law in Fog. R. F. Farwell 784, 833, 1429
Folk, W. P.: Confederate States Naval Academy . 1235
Food and Theory of Probability. E. U. Condon 75, 97–98
Football: See Naval Academy
Foreign Legion, French 80
Forts
Fisher, N. C.: Porter's attack ..... ill. 156
Jackson, La. ..... 293, ills. 240–41
France
Cabinet and elections 110, 252, 273, 411, 553, ... 692, 1296, 1761
Italian relations 1625
Mine magazine, Cherbourg Arsenal ..... ill. 1598
Morocco, Campaign in. F. E. Evans 80
Nice ..... ill. 727
Rumanian relations 411
Russian relations 411, 998
Villefranche ..... ill. 726
France—Navy
Budget 425, 708, 860
Comparisons 1464
Disposition of forces 1778
Education 271
Employment schedules 563, 1162, 1622, 1625
Escort ship: Commerce defender 270
Maneuvers 1162, 1313
Motor boats 273, 563, 1450, 1777
Officers, Admiral Darlan re 271, 1036
Vessels building 262, 709
Vessels laid down, 1922–33 848–49
Freedom of Seas. G. J. Meyers 1355
Freedom of Seas, Preface to. D. E. Cummings 486
Frost, D. A.: Candidates for Public Servants 1713
Frothingham, T. G. 1337
Fuel
Alcohol-petrol blend 570
Fire-safe aviation 1325
Navy's Future Fuel Problem 249
Oil from coal 714

G

Galilee, Sea of: Palestine ..... ill. 540
Galleons: See Sailing ships
Gas warfare: See Warfare, Gas
Gatch, T. L.: Neglected Navigational Short Cut 532, 545
Gatty, H.: Accuracy in Aërial Dead Reckoning 1561, 1601
Georges Bank 518, 520
Germany
Austrian relations 410, 1435
Budget 691
Church, Nazis and 410, 841, 1434, 1611, 1762
Debt suspension 1146, 1295
Forum article re arming 252
Italian relations 1147
Nazi purge 1146, 1295
Polish relations 409
Reichswehr, Second, organized 709
Saar plebiscite 410, 1434
States lose rights 411
United States relations 1762
Von Hindenburg, P.: Death 1433

Page

Germany—Navy
Budget 860
Comparisons 1464
Gunboat That Became Yankee. C. C. Hanks 1279
Maneuvers 1779
Mutiny, 1918 German Naval. W. Husen 934
Post-treaty plans, Hitler's 426–27
Swastika for uniform 1164
Gherardi, W. R. 99, 1137
Gibbs, R. H.: Telegraphy's First Asiatic Cruise 495
Gibraltar
Missouri (U.S.) burning ill. 1045
Rock ill. 728
War Memorial ill. 721
Gill, C. C. 103
Gliders
Records 1640, 1791
Training potential aviators 1338
Good Will for Navy, Promotion of. G. W. Akers 1390
Gosnell, H. A. 400
Our First Battleship 357
Greece: Navy 1320, 1780
Greek fire: Ancient weapon 1313
Grenade, Rifle ill. 1223
Guns and gunnery
Aircraft Bomb and Naval Gun 245
Depth charge gun, *Fanning* (U. S.) ill. 1400
Japanese cruisers 430
Salvo Fire, Anomalous Times of Flight in. G. L. Schuyler 679
Target ship *Utah* (U.S.) ills. 1044, 1530
Turret design 423

H

Haag, A. H.: America in International Carrying Trade 1363
Hale, P. G. 988
Hall, R. A. 1764
Hamilton, J. E. 249
Handkerchiefs 1624
Hanks, C. C.: German Gunboat That Became Yankee 1279
Hanna, J. 1605
Hanson, R. T.: Translation 100
Harris, H. D.
Effect of Mechanization and Motorization on Tactics 609
Mechanization in Aid of Landing 1735
Hawaii
Cook, Death of Captain J. ill. 154
Lighthouse, Cape Kumukahi 867
Hayes, J. D.: Manila Galleons 1689
Health: See Fitness, Physical
Heart disease: Coronary Sclerosis. G. W. Calver 1214
Heffernan, J. B. 254
Held, Anna, christening Kimball airplane ill. 306
Heligoland Island ill. 543
Historic Ships of Navy. R. W. Neeser
Cricket 1543
Essex 550
Hobbies
Postmarks, Collecting Naval: Riding a Hobby. H. P. Faust 1231
Ship-Model Building as Naval Officer's Hobby. A. R. McCracken 974, 985, 1753
Hoff, A. B. 399
Holly, L. B. 1604
Holmes, W. J.: Foundation of Naval Policy 457, 1138
Hopkins, H. V.: New Uses for Martelli's Tables 651
Horizons, Speaking of. P. V. H. Weems 202
Hospital ships: *Relief* (U.S.) ills. 768, 1798

Page

Hospitals: Early naval 421
Hovgaard, W. 545
Hudson-Fulton celebration: Wright's flight 313, ills. 302–5
Hull, I. 1206
Hull, W. 1202
Hunt, L. 548
Hurricanes: See Meteorology
Huse, J. O.: Diesel-Driven Surface Craft 1564
Husen, W.: German Naval Mutiny, 1918 934
Hydrographic Office: Consolidation proposal 121
Hydrography: See Oceanography

I

Ice-making ship *Tunisie* (Fr.) 1634
Ice patrol, Atlantic 1443
India: Himalayan river ill. 544
Indian Navy, Royal 859, 1624, 1776
Inglis, T. B. 990
Instruments
Fog disperser, Houghton 1458
Pantograph ill. 30
Radiometer amplifier 570
Instruments—Aircraft
Altimeter, Acoustic 280
Blind flying 718
Camera machine gun 435
Gatty ground speed and drift meter ill. 1560
Lindbergh's 1933 equipment 672, 717, ill. 658
Radiocompass receiver and loop, Italian ill. 1134
Sextant, New Navy 1634
Instruments—Nautical
Chinese mariners' 359, ill. 349
Depth recorder: "Blue-Pigeon" 276
Direction finder, Cathode-ray 1633
Fog-piercing camera 713, 1022
Marconi's fog navigation 1442, 1804
Oceanography and Navy. C. C. Slayton 33, 99, ills. 26–32, 37
Protractor and Plotting Scale, Pratt. F. Jansen 1740, 1753
Sextant, Inexpensive Handmade. E. S. Clark, Jr. 908, ills. 909, 911, 913
Sextant, Macneil all-weather 1021
Slide Rule in Navigation. H. T. Van Patten 1104, 1143
Station Keeping. R. Willson 1105, ills. 1106–8
International code: See Signals
Italy
Austrian relations 1435
Cabinet and elections 110
Corporative state plan 1761
French relations 1625
German relations 1147
Naples ill. 725
Orbetello: Aviation school and base ill. 1131
Roman Forum ruins ill. 723
Vesuvius ills. 724–25
Italy—Navy
Budget 427, 564, 710, 1015, 1451
Comparisons 1464
Employment schedules 565
Vessels building 128, 262
Vessels laid down, 1922–33 848–49

J

Jansen, F.: Pratt Protractor and Plotting Scale 1740, 1753
Japan
Abyssinian relations 1626
Beppu ill. 1419

Page

Japan (Cont.)
Budget....273, 1452, 1627
Cabinet and elections....409, 1148, 1297
Canal transportation, Tokyo....ill. 1420
Coaling ship, Nagasaki....ill. 1424
English relations....556, 694
Far East Policy....838, 861
Fishing boats....ill. 1421
Gifts to government....711, 720
Hiroshima Bay....ill. 1417
Mandated islands....274, 566, 719, 1018, 1630
Oil industry....1758
Osaka....ill. 1418, 1422
Russian relations 111, 130, 253, 556, 694, ...1148, 1297, 1437
Sampans....ills. 239, 1420–21, 1423
Shikoku....ill. 1423
Ships purchased for scrapping....1020
Spirit, National, and defense....429
Telegraphy's First Asiatic Cruise. R. H. Gibbs. 495
Tokyo....ill. 1420
Trade, World, Japan's Drive for. D. W. Knox. 1414
United States relations. 409, 427–30, 693, 710, 863
War book censorship....429, 710
Japan—Navy
Comparisons....261, 559, 711, 1464
Education....131
Guard squadrons....129
Launching, Unusual....274
Maneuvers....274, 1319
Personnel....1166
Togo, Admiral H....1164
Vessels building....130, 262
Vessels laid down, 1922–33....848–49
Jett, G. H....1755
Johnson, J. G....1615
Johnston, M....104
Joint operations: See Strategy and tactics
Jones, J. P.: Flag, First foreign recognition American....1801, ill. 149
Junior Officer's Widow: See Dugan, F. L.
Junks....ills. 214, 218
Jutland, Battle of
Signals....1776
Technical Aspects of Jutland. H. G. Brownson....1249

K

Kaufman, J. B.: Advice to Fellow-Middle-Agers.. 50
Kennaday, J. M.: Physical Prowess and Leadership....947
Kent, M. C....246
Kincaid, E. H....397
Kirkpatrick, J., Jr....404
Kline, A....407
Knight, R. H.: Seismology and Navy....1110, 1137
Knot board of *Pensacola*....ill. 1031
Knox, D. W.
Japan's Drive for World Trade....1414
Navy and National Life....774
Krakatoa, Sunda Strait....903, 1097

L

Lamb, C. J....249
Landing operations: See Strategy and tactics
Langen, T. D. F....837
Lathrop, C.: Vanished Ships....949
Leadership
Leadership. W. V. Pratt....1049
Physical Prowess and. J. M. Kennaday....947

Page

League of Nations
Membership....1609
Reform suggested....252
Lecky, Page Captain. W. A. Mason....754, 1604–6
Lennox, J. J.: Training Reserve Supply Corps....647
Leticia dispute....995
Letter-writing....234, 837, 993
Liberty party, Balboa, C. Z....ill. 1028
Lighthouse Service: Consolidation proposal....121
Lighthouses
Cape Hatteras....420
Hawaii: Cape Kumukahi....867
Minots Ledge, Mass....1103, ill. 1092
Tillamook Rock, Ore....1103, ill. 1093
Volcano: Tofua....265, 294
Lightship, Nantucket Shoals....1019
Limitation of armaments
Conference preparations and outlook 996, 1009, 1015 ...–17, 1144, 1159, 1442, 1628–30, 1758, 1770–72
Diplomacy affects naval programs....1303
"Disarmament" incorrect term....1033
Effect on naval construction....560
Issue at Next Naval Conference. M. F. Talbot....1682
Naval Armament Limitation. C. Conard....9, 545
Periodical articles re....1613, 1759
Pratt, W. V.: *Foreign Affairs* article 1144, 1154, ...1166–68, 1186
Problem of Naval Treaties. M. F. Talbot....745
Lindbergh, C. A.: Atlantic flight, 1933..276, 435, 717
By P. V. H. Weems....672
Line squalls: See Meteorology
Lissa, Battle of....ill. 891
Livingston, B....1607
Lloyd, I. R.
Bell of *New Orleans* (U.S.)....ill. 1496
Ships drawn from plans....295, ill. 142
Lockwood, C. A....114, 833
Louisiana: Fort Jackson....293, ills. 240–41
Loukine, A.: Submarine Mine-Layer *Krab*....197
Lovette, L. P.: What Price Victory?....1073

M

McClellan, E. N....1000, 1763
McCracken, A. R....259
Ship-Model Building as Naval Officer's Hobby 974, 985, 1753
Universal Signal Book, 1818....230
McEathron, E. D.: Selection of Strikers....655
McIntosh, K. C....97
Playing Safe with Books....614
McPike, H. H....1429
Macarthur, W.: Voyage of *Sacramento*....1061
MacMahan, D. S....114
Magruder, P. H.: Naval Academy Practice Ships 623, 729
Management: See Administration and organization
Manchukuo
Emperor's coronation....555
Map....1612
Navy....131, 1019, 1168, 1630, 1780
Recognition, Non-....111
Recognized by Salvador....999
Mandated islands: See Japan
Manila Galleons. J. D. Hayes....1689
Manning, G. C.: Yangtze....221
Maps, Ocean: See Oceanography
Marchant, W. A.: *Texas* (U.S.) model....985, ill. 977
Marine Corps: See United States

Page

Maritime law
Freedom of Seas. G. J. Meyers ... 1355
Preface to Freedom of Seas. D. E. Cummings .. 486
Rules of road: See Accidents—Vessels
Marmer, H. A.: Variety in Tides ... 373
Marryat, Captain F. ... 1083
Martelli's tables ... 651
Mary Ann: Wrecking barge, Pensacola ... ill. 393
Masefield, J.: *Queen Mary* launching poem ... 1785
Mason, W. A.
Page Captain Lecky ... 754, 1604, 1605, 1606
Santa Ana or Desert Storm of Southern California ... 56
Massachusetts: Minots Ledge lighthouse. 1103, ill. 1092
Maury, M. F.: Monument, Richmond, Va. ... ill. 25
Mazet, H. S.: America's Aëronautical Pioneers ... 309
Mead, H. P.: History of International Code ... 1083
Mechanization and Motorization, Effect of, on Tactics. H. D. Harris ... 609
Mechanization in Aid of Landing. H. D. Harris ... 1735
Medical advice: See Fitness, Physical
Memorials: See Monuments
Mendl, W. V. ... 1753
Merchant marine
Commerce Destruction—Past and Future. F. Pratt ... 1513
Lloyd's statistics ... 431, 712, 866
Passenger rates reclassified ... 276
Rules of road: See Accidents—Vessels
Tonnage world shipping ... 1786
Merchant marine—England
Cunard-White Star merger ... 568
Passenger statistics, North Atlantic ... 865
Report on condition ... 431
Subsidies ... 1322, 1453
Merchant marine—France
Construction ... 713
Subsidies ... 1322, 1454
Merchant marine—Germany: Construction ... 866
Merchant marine—Japan
Subsidies ... 431, 1321, 1454
Trade, World, Japan's Drive for. D. W. Knox .. 1414
Merchant marine—Poland: Construction ... 276
Merchant marine—United States
America in International Carrying Trade. A. H. Haag ... 1363
Communication system ... 1803
National Maritime Day ... 866, 882
Naval inspection of ships ... 1782
New Zealand-American competition ... 712
Passenger traffic and ship need ... 430
Pay ... 133
Subsidies ... 132, 276, 569, 1453, 1783
Merchant ships (See also Sailing ships)
Alexandria (Ger.) ... 1061
Algonquin (U.S.) ... ill. 1370
Arcwear (Eng.) ... 275, 569, 713
Auxiliaries to navies ... 133, 865, 1618, 1783
Bidwell (U.S.) ... ill. 1793
Big ship standing of countries ... 276
Borinquen (U.S.) ... ill. 1371
Brion (Neth.) ... 420
Excalibur (U.S.) ... ill. 1369
Haiti (U.S.) ... ill. 1375
Hamburg (Ger.) ... 274, 1020
John Randolph (U.S.) ... 882
Karise (Rus.) ... 432
Lurline (U.S.) ... 1651, ill. 1398
Manhattan (U.S.) ... ill. 1397
Morro Castle (U.S.) ... 1782–83
Normandie (Fr.) ... 1632–33, 1785

Page

Merchant Ships (Cont.)
Olympic (Eng.) ... 1019
President Hayes (U.S.) ... 183, 986, 988
President Hoover (U.S.) ... ill. 1374
Queen Mary (Eng.) .. 1021, 1455, 1631–33, 1784, 1801
Sacramento (U.S.) ... 1061
Santa Paula (U.S.) ... ill. 1376
Savannah (U.S.) ... 866, 882
Silverpalm (Eng.) ... 118, 1429
Thistlemore (Eng.) ... ill. 500
Virginia (U.S.) ... ill. 1373
Washington (U.S.) ... ill. 1372
Mess
Centralized ... 125
Evolution of Navy Ration. J. H. Skillman ... 1678
Food and Theory of Probability. E. U. Condon ... 75, 97–98
Metals: Bendalloy ... 867
Meteorology
Aërology, History of, in Navy. F. J. Nelson ... 522
Hurricane, Study of Tropical. B. Anderson ... 183, 986, 988
Lighter-than-Air Craft and Line Squalls. F. J. Nelson ... 369, 397, 1142
Santa Ana or Desert Storm of Southern California. W. A. Mason ... 56, ills. 65–66
Wind Scale, Beaufort, F. J. Nelson ... 1546
Mexico
Galleons, Manila. J. D. Hayes ... 1689
Navy ... 1781
Meyers, G. J.: Freedom of Seas ... 1355
Michael, W. H.: Pleasure and Pain of 1918 ... 1705
Middle-Agers, Advice to Fellow-. J. B. Kaufman. 50
Miles, A. H.: Code for Correspondence .. 234, 837, 993
Mines
Casualties, World War ... 1591, ills. 1593–97, 1600
Destroyer, On Deck of English ... ill. 1599
German operations, World War ... 1626
Laying facilities of navies ... 1587
Laying squadron in formation: World War. ill. 1594
Magazine, Cherbourg Arsenal, France ... ill. 1598
Mine Force: Sothern. W. T. Cluverius ... 345
Submarine Mining, Orphan Child of Service. W. F. Palmer ... 1582
UC-44 mines recovered by *Melville* (U.S.) .. ill. 1593
Mississippi River ... 809
Missouri: Naval Reserve Aviation Base, Robertson ... ill. 394
Mistaken Attacks in World War. L. Doughty, Jr. ... 1729
Mobilization: Nation in Arms. H. J. Ray ... 205
Models
American Marine Society ... 1187
Carrack, 15th Century ... ill. 978
Coronation ... ill. 984
Cumberland (U.S.) ... ill. 983
Cutter, Navy, of 1775 ... ill. 1644
Hobby, Ship-Model Building as Naval Officer's. A. R. McCracken ... 974, 985, 1753
Landing Operations, Teaching, with Models. C. G. Richardson ... 796, ills. 797–98, 801–2
Peacock (U.S.) ... ill. 982
Pennsylvania (U.S.) ... ill. 980
Portsmouth (U.S.) ... 1337, ill. 989
Sovereign of the Seas (Eng.) ... ill. 977
Texas (U.S.) ... 985, ill. 971
Monitors (Ship names: See Warships)
Austria ... 105, ills. 450–51
Confederate ... ills. 1241–42
United States ... ills. 242–44, 441, 806–8
Yugoslav ... ills. 450–51

Page

Montgomery, J. B. J. M. Ellicott.....533, ill. 537
Monuments and memorials
British Memorial to United States Navy in World War. R. E. Bakenhus.1720, ills. 1721, 1723
Dover Patrol, Fort Hamilton Park, Brooklyn, N.Y.....1720, ills. 1721, 1723
Gibraltar War Memorial.....ill. 721
Maury, Richmond, Va.....ill. 25
Pringle, U. S. Naval Academy..... 1154
Resistance to British arms, New York State.ill. 1722
Statue of Liberty.....ill. 1200
Tampa and *Seneca* (U.S.): Gibraltar..... 1445
Morale: See Discipline
Morocco: French Campaign. F. E. Evans.80, ills. 89–96
Motorization: See Mechanization
Mountains and volcanoes
Atlas: Morocco.....80, ills. 89–96
Krakatoa, Sunda Strait.....903, 1097
Lighthouse volcano: Tofua.....265, 294
Vesuvius, Italy.....ills. 724–25
Munroe, C. E.: Standardizing U. S. Naval Electric Detonator..... 505
Murphy, J. W., Jr..... 414
Mutiny
De Zeven Provincien (Neth.)..... 864
German Naval Mutiny, 1918. W. Husen..... 934
La Martiniere (Fr. convict ship)..... 426
Suppressed Mutiny on *Essex*..... 548
Myers, G. B..... 256

N

Napoleon Bonaparte..... 890
National Maritime Day.....866, 882
National Recovery Administration..... 317
Naval Academy
Entrance requirements change.....1307, 1339
Football game, Army-Navy (1933).....146, ills. 1–8
Mission, Suggested. J. S Barleon..... 1268
Practice Ships. P. H. Magruder 623, 729, ... ills. 593–600, 633–40, 657, 660, 681–88
Pringle memorial..... 1154
Naval Academy, Confederate States. W. P. Folk. 1235
Naval architecture (See also classes of ships)
Arcform hull.....275, 569, 1170
Bows: Hamburg-American Line.274, 570, 588, 1020
Naval Historical Foundation: Meetings and reports.....291, 297
Naval Institute
Changes in officers.....1034, 1651
Circulation, Larger, urged..... 1392
Donations to..... 293
Meetings and reports.....292, 585, 591
Membership and subscription information 1035, 1649
Prize-essay contest.....445, 729, 1337, 1343, 1649
Publications.....291–92, 446, 587, 729, 883–84 ....1034–35, 1185, 1300, 1340, 1499, 1650, 1802
Naval Reserve: See United States
Naval stations
Aërial Bombardment of Fleet Bases..... 100
Great Lakes, 1812..... 1337
Mandated islands: See Japan
Pacific Area, Naval Preparedness in. Y. Stirling, Jr..... 601
Pacific: United States and Japan.....122, 566, 1619
Singapore (Eng.).....269, 423, 1621
South Sea..... 273
Navigation (See also Instruments)
Air Almanac. A. A. Ageton.....1261, 1291
Anchoring Diagrams. O. L. Downes..... 73
Azimuth, New Formula for. E. B. Collins..... 973
Bearings, Evaluating a Series of. R. C. Parker.. 79

Page

Navigation (Cont.)
Calling Your Shots of Sun and Stars..... 246
Chinese Mariners' Compass, Charts, and Methods of Navigation. F. H. Wells.359, ill. 349
Dead Reckoning, Aërial, Accuracy in. H. Gatty 1561, 1601
Horizons, Speaking of. P. V. H. Weems..... 202
Lecky, Page Captain. W. A. Mason.....754, 1604–6
Martelli's Tables, New Uses for. H. V. Hopkins..... 651
Methods: Page Captain Lecky. W. A. Mason 754, 1604–6
Neglected Navigational Short Cut. T. L. Gatch.....532, 545
Protractor and Plotting Scale, Pratt. F. Jansen 1740, 1753
Rules of road: See Accidents—Vessels
Slide Rule in Navigation. H. T. Van Patten 1104, 1143
Station Keeping. R. Willson..... 1105
Navy Day
England.....1312, 1447, 1449, 1499
United States.....1445, 1497
Navy yards: See Naval stations
Neeser, R. W.: Historic Ships of Navy
Cricket..... 1543
Essex..... 550
Nelson, F. J.
Beaufort Wind Scale..... 1546
History of Aërology in Navy..... 522
Lighter-than-Air Craft and Line Squalls369, 397, 1142
Nelson, W..... 104
Neutrality
Keeping United States Neutral. W. W. Phelps. 1353
Sacramento, Voyage of. W. Macarthur..... 1061
New Jersey: Lakehurst.....ills. 918–19
New York City
East River in "gay nineties".....ill. 1724
Fleet review: See Fleet reviews
Harbor, Old chart of..... 510
South Street, 1894.....ill. 1725
Newspapers: See Publicity
Nicaragua: Sandino, A..... 555
Noise: See Sound
North Carolina: Fort Fisher attack.....ill. 156

O

Oceanography
Chinese Mariners' Compass, Charts, and Methods of Navigation. F. H. Wells..... 359
Labrador coast survey.....423, 707
Mapping Ocean Floor. G. T. Rude..... 509
Oceanography and Navy. C. C. Slayton....33, 99
Seismology and Navy. R. H. Knight.....1110, 1137
Variety in Tides. H. A. Marmer..... 373
Waves, Great Sea. R. P. Whitemarsh..... 1097
Oil: See Fuel
Oil tankers: Ballasting a Navy Tanker..1755, ill. 1793
Olch, I..... 1614
Old Man River, 1863. H. G. Dohrman..... 809
Oldendorf, J. B.....115, 545, 1001, 1143, 1291, 1753
Oregon: Tillamook Rock lighthouse.....1103, ill. 1093
Orellana, F. de: Amazon River Voyage.....1766–67
Organization: See Administration and

P

Pacific Ocean: Galleons, Routes followed by..... 1691
Pacifism
Influence of Public Opinion upon War. B. Anderson..... 961
National Policies and Defense. G. W. Akers.... 897

Page

Pacifisms (Cont.)
What Price Victory? L. P. Lovette 1073
Palestine
Haifa, Port of 1169
Sea of Galilee ..... ill. 540
Palmer, W. F.: Submarine Mining, Orphan Child of Service 1582
Pan-American conferences 109, 250
Panama: Plaza Central, Panama City ..... ill. 1030
Panama Canal
Brion (Neth.): First foundering 420
Fleet transit ..... 850, 852, ills. 1026–28, 1745–52
Gaillard Cut ..... ill. 1043
Power: Locomotive and battleship ..... ill. 1702
Steering orders 713
Traffic 431
"Papa's Yacht" 1715
"Paper war." *Essex* (U.S.) at Valparaiso 548
Paper-work: See Administration and organization
Paraguay: See Chaco boundary dispute
Parker, R. C.: Evaluating a Series of Bearings 79
Patterson, C. R.: Paintings 893–96, 1724–25
Pay: See Personnel
Pay day ..... ill. 917
Peace or War, Choose. W. N. Thornton 1377
Peace-Time Artificiality. F. G. Percival 1665
Pence, H. L. 247
Percival, F. G.: Peace-Time Artificiality 1665
Perkins, C. E.: Working Division 21, 407, 689
Perry, E. B.: See Welch, P. P.
Perry, M. C. 495, 862
Personnel (See also under countries)
Increase asked 120, 122, 266
Promotion by Selection. W. S. Sims 769, 1156, ... 1289–90, 1425, 1602–3, 1607
Promotion for Enlisted Men 404
Promotions, Past and Future. C. R. Brown 157, 990
Public Servants, Candidates for. D. A. Frost 1713
Quality, High, of Our Reserve. H. C. Reisinger. 1526
Quarterly Marks and Promotion of Enlisted Men 403, 547, 835
Recruiting 172
Strikers, Selection of. E. D. McEathron 655
Peru: See Leticia dispute
Phelps, W. W. 837, 1289
Keeping United States Neutral 1353
Philippine Islands
Chart, Old 512
Corregidor village ..... ill. 474
Galleons, Manila. J. D. Hayes 1689
Independence 481, 554, 693
Manila ..... ills. 475–80, 497
Pasig River ..... ills. 476, 478
Philippine Independence from Economic Standpoint. H. L. Vickery 481
Zamboanga, Mindanao ..... ill. 743
Physical fitness: See Fitness, Physical
Piccard stratosphere flight 1788
Pigeon communication 268
Pinchin, E. T. 405
Pizarro, G.: Land of Cinnamon expedition 1767
Poetry
Masefield, J.: *Queen Mary* launching 1785
"Paper war." *Essex* (U.S.) 548
Poison gas: See Warfare, Gas
Poland
Gdynia ..... 587, ills. 580–83
German relations 409
Military Auxiliary Service 1781

Page

Policy (See also under countries)
Foundation of Naval Policy. W. J. Holmes 457, 1138
National Policies and Defense. G. W. Akers 897
Navy and National Life. D. W. Knox 774
War cause, National, as 418
Porter, D. D.
Fort Fisher attack ..... ill. 156
Mississippi squadron, 1863 ..... 809, ills. 806–9
Portugal
Navy 712, 1320
St. Vincent, Battle of ..... ill. 889
Postmarks, Naval 1231
Pratt, F. 105, 399
Commerce Destruction—Past and Future 1513
Pratt, W. V.
Foreign Affairs re armaments 1144, 1154, ... 1166–68, 1186
Leadership 1049
Pratt Protractor and Plotting Scale. F. Jansen 1740, 1753
Preble, E. 399
Preparedness
Aërial, United States 134, 177, 573, 1138
Choose Peace or War. W. N. Thornton 1377
Nation in Arms. H. J. Ray 205
National Defense, 1934. E. S. R. Brandt 317
National Policies and Defense. G. W. Akers 897
Navy and National Life. D. W. Knox 744
Pacific Area, Naval Preparedness in. Y. Stirling Jr. 601
Procurement 205, 247, 834
What Price Victory? L. P. Lovette 1073
Pringle, J. R. P.: "Pull Together" 1154
Prisons, Naval 174
Prizes (See also Naval Institute): Royal Society of Arts 731
Procurement
Nation in Arms. H. J. Ray 205
Procurement Planning for War 247, 834
Promotion: See Personnel
Propellers—Aircraft
Controllable-pitch 278, 1024, 1326, 1790
Propellers—Marine: Hotchkiss internal-cone 571
Public Servants, Candidates for. D. A. Frost 1713
Publicity
England: "Silent service" 561
Navy vs. News. A. B. Sharp 529
Promotion of Good Will for Navy. G. W. Akers 1390
What Price Victory? L. P. Lovette 1073

Q

Quallah Battoo action ..... ill. 152
Quarterly Marks and Promotion of Enlisted Men 403, 547, 835

R

Raftery, T. J. 403, 547, 835
Raiders: Commerce Destruction—Past and Future. F. Pratt 1513
Ramsey, L. C. 245
Rations: See Mess
Ray, H. J.: Nation in Arms 205
Records (paper-work): See Administration and organization
Records (performance): See subject wanted
Recruiting: See Personnel
Reisinger, H. C.
High Quality of Our Reserve 1526
Naval Aviator in Reserve 381
Richardson, C. G.: Teaching Landing Operations with Models 796

Page

Richardson, G. M.: Method of Search for *Akron*.. 470
Rickover, H. G. 403
Riding a Hobby: Collecting Naval Postmarks. H. P. Faust 1231
Riesenberg, F. 1300
Robot: *Utah* (U.S.) ills. 1044, 1530
Romance of sea 347
Roosevelt, T. ill. 880
Rosendahl, C. E.: Loss of *Akron* 921
Rougeron, C. 100
Rowan, S. C.: First to raise flag, San Diego 122
Rude, G. T.: Mapping Ocean Floor 509
Rules of road: See Accidents—Vessels
Rumania
  French relations 411
  Premier Duca assassinated 252
Russia
  French relations 411, 998
  Japanese relations 111, 130, 253, 556, 694, 1148 1297, 1437
  Ogpu abolished 1296
  United States and Russia in World Equilibrium. S. F. Bryant 1405
  United States relations 108, 1611
Russia—Navy
  Ship data 1164, 1453, 1781
  Submarine Mine-Layer *Krab*. A. Loukine 197

S

Saar plebiscite 410, 1434
Sackett's Harbor Naval base 1338
Sailing ships (Warships: See Warships)
  Balgonar (Eng.) ill. 283
  Brazilian lancha ill. 1647
  Burying her: *Bluenose* ill. 1182
  Cape Horn, Rounding ill. 1090
  Clippers, etc., still in use 275
  Coasting along ill. 1331
  Commodore (U.S.) ill. 289
  Dauntless (U.S.) ill. 894
  Decks awash: *Gertrude L. Thebaud* ill. 1181
  Douse tops'ls! *Columbia* ill. 1184
  Fair breeze ill. 1336
  Galleons, Manila. J. D. Hayes 1689
  Gloucester fisherman ill. 1330
  Gold seekers, 1849 ill. 896
  Hoisting last sails ill. 584
  Honolulu (Eng.) ill. 286
  Icing up ill. 1180
  Iris (Fr.) ill. 1046
  Panay (U.S.) ill. 284
  Roaring down the channel ill. 1329
  Romance of sea 347
  Schooner ashore ill. 499
  Sennia (Nor.) ill. 285
  Slogging into it ill. 1183
  Square-rigger ill. 288
  Star of Alaska (U.S.) ill. 290
  Talavera (Eng.) ill. 287
  Tusitala (U.S.) ill. 1658
  Uvira (U.S.) ill. 1224
  Wanderer (Eng.) ill. 893
  Whalers ill. 1089
  William Dollar (U.S.) ill. 895
St. Jame's Day Fight: Second Dutch War ill. 892
St. Vincent, Battle of ill. 889
Salvador: Recognizes Manchukuo 999
Salvo Fire, Anomalous Times of Flight in. G. L. Schuyler 679
Samoa: Canoes: Native Craft of Samoa. A. T. Emerson 1549, ills. 1553–57

Page

Sampans ills. 239, 1420–21, 1423
Santa Ana storm: See Meteorology
Sawyer, A. G.: Paintings 1396–97, 1642–43
Scapa Flow: Salvage operations 708, 1632
Schneider, F., and airplane ill. 308
Schrader, A. E. 413
Schuyler, G. L. 98
  Anomalous Times of Flight in Salvo Fire 679
Sclerosis, Coronary. G. W. Calver 1214
Sea terms, English 730
Seadromes: See Airways
Seamanship: See Navigation
Searchlight display ill. 1508
Seismology and Navy. R. H. Knight 1110, 1137
Selection: See Personnel
Seligman, J. L. 834
Settle, T. G. W. 1142
  Stratosphere flight 136
Sextants: See Instruments—Nautical
Sharp, A. B.: Navy vs. News 529
Sherman, F. 550
Ship models: See Models
Shipbuilding: See Merchant marine, Naval architecture
Shipwrecks: See Accidents—Vessels
Siam: Navy 1782
Signals
  Conflicting Signals. R. F. Farwell 333
  English tests 1446, 1804
  International Code, History of. H. P. Mead 1083
  Jutland, Battle of 1776
  Universal Signal Book, 1818. A. R. McCracken. 230
Simonds, W. A.: Model of cutter ill. 1644
Sims, W. S.: Promotion by Selection 769, 1156, 1289–90, 1425, 1602–3, 1607
Skillman, J. H.: Evolution of Navy Ration 1678
Skin, Bullock, boats: India ill. 544
Slayton, C. C.: Oceanography and Navy 33, 99
Slide Rule in Navigation. H. T. Van Patten. 1104, 1143
Slocum, F. A. 845
Slogans of Navy 233
Smith, C. W. 1601
Smith, J.: Map Atlantic Coast 509
Smoke screen ills. 1393, 1531
S O S replaced by T T T 1021
Sothern, W. T. Cluverius 345
Sound: A Noise Annoys. R. L. Dennison 903
Soundings: See Oceanography
Spahis, Algerian ill. 89
Spain
  Cabinet and elections 111, 840, 1611
  Navy 1453, 1631, 1782
  Revolt 253, 1761
Specialists 266, 1036
Squadron of evolution, 1889 ill. 237
Sperr, P. L.: Fleet at New York City ills. 1657–64, 1726–28, 1794–95, 1798–1800
Station Keeping. R. Willson 1105
Statues: See Monuments and memorials
Stevens, P. A. 1290
Stirling, Y., Jr.: Naval Preparedness in Pacific Area 601
Stone, E. W.: Communications for Italian Transatlantic Flight 1121
Storms: See Meteorology
Strategy and tactics
  Aërial: See Warfare, Aërial
  Chinese Lines of Communication and Their Effect on Strategy. F.H. Wells 1519
  Commerce Destruction—Past and Future. F. Pratt 1513

Page

Strategy and Tatics (Cont.)
Diesel-Driven Surface Craft. J. O. Huse 1564
Joint Military-Naval Operations. E. W. Broadbent 321, 837
Landing-force exercises, Guantanamo Bay, Cuba ..... ills. 1220–23
Landig Operations, Teaching, with Models. C. G. Richardson 796
Mechanization and Motorization, Effect of, on Tactics. H. D. Harris 609
Mechanization in Aid of Landing. H. D. Harris. 1735
National strategy 774
Tactical School, Evaluation of. J. C. Breckinridge 1537
Stratosphere flights 136, 1788
Strikers, Selection of. E. D. McEathron 655
Sturdee, F. D. 939
Submarine chasers
Italy 1626
Mistaken Attacks in World War. L. Doughty, Jr. 1729
Submarine mines: See Mines
Submarines (Ship names: See Warships)
Anniversary first machine-propelled 270
Commerce Destruction—Past and Future. F. Pratt 1513
Direction-finding equipment 867
Mine-Layer *Krab*. A. Loukine 197
Mistaken Attacks in World War. L. Doughty, Jr. 1729
Restrictions absurd, Treaty 422, 426
U-58 (Ger.), Capture of. R. B. Carney 1401
Submarines—France
Model: Cannot sink beyond recovery 425
Submarines—Italy
Endurance cruises 1014
Rescue and safety devices 1163, 1317
Submarines—Japan
Depot-ship *Taigei* 130
Midget 430, 1018
Submarines—United States
Deck scene ..... ill. 1533
Tender and ..... ills. 140, 1492, 1796
Sumatra: Quallah Battoo action ..... ill. 152
Sunderland, A. H. 993
Supply Corps, Training Reserve. J. J. Lennox 647
Swann, S. D.: Etchings for sale 1803
Sweden: Navy 131, 1320, 1782

T

Tactics. See Strategy and
Talbot, M. F.
Issue at Next Naval Conference 1682
Problem of Naval Treaties 745
Tankers
Auxiliaries to navies 865
Ballasting a Navy Tanker 1755
Tanks, Cleaning ships' 1755
Target ship: *Utah* (U.S.) ..... ills. 1044, 1530
Target-towing vessel, English 1312
Taussig, J. K. 233, 1425
Telegraphy's First Asiatic Cruise. R. H. Gibbs ... 495
Texel, Battle of ..... ill. 1047
Thackray, M.: See Weems, Mrs. P. V. H
Thompson, T. B. 697
Thornton, W. N.: Choose Peace or War 1377
Tides: See Oceanography
Togo, Admiral H. 1164
Tonga Islands, Tofua: Lighthouse volcano ... 265, 294
Torpedoes
Detonator, Standardizing electric 505

Page

Torpedoes (Cont.)
Italy 1163
Japan 711
Radio-controlled 1635
Recovering, Small boat ..... ill. 1706
Reward for salvage 1775
Towing the *Chandler*, *California* ..... ill. 914
Training ships (See also Warships)
Conway (Eng.) ..... ill. 442
Empire State: New York Nautical School ... ill. 1641
Juan Sebastian de Elcano (Sp.) 864, 1631
Naval Academy Practice Ships. P. H. Magruder 623, 729, ills. 593–600, 633–40, 657, 660, 681–88
Sorlandet (Nor.) ..... 1320, ill. 1091
Transports: Mistaken Attacks in World War. L. Doughty, Jr. 1729
Treaties
Austro-Italo-Hungarian co-ordination 691
Balkan non-aggression 411, 998
Cuba-United States trade agreement 1436
Franco-Soviet commercial 411
Locarno, Eastern 1294, 1610
Polish-German non-aggression 409
Problem of Naval Treaties. M. F. Talbot 745
Russo-Baltic non-aggression 841
Tripoli: Barbary Wars 399
Trophies, Fleet ..... ill. 916
Tropical storms: See Meteorology
Tryon and *Victoria*. R. E. Bassler 1270
T T T replaces S O S 1021
Turkey
Navy 1164
Stamboul ..... ill. 238
Turrets: See Guns and gunnery

U

Uniforms: Handkerchiefs 1624
United States
Arms embargo 554, 994, 1147, 1187
Cuban relations 409, 995, 1436
Far East policy 408, 852
German relations 1762
Intervention policy 250
Japanese relations 409, 427–30, 693, 710, 863
Neutral, Keeping United States. W. W. Phelps. 1353
Pan-American conferences 109, 250
Russia, United States and, in World Equilibrium. S. F. Bryant 1405
Russian relations 108, 1611
United States Army
Procurement Planning for War 247
United States Coast Guard
Academy cruise itinerary 853
Activities ..... ills. 498–502, 1224
Bear of Oakland, former cutter ..... ill. 1642
Consolidation proposal 121
Economy program 703
Sebago ..... ill. 1699
United States Marine Corps
Joint Military-Naval Operations. E. W. Broadbent 321, 837
Quality, High, of Our Reserve. H. C. Reisinger. 1526
Regiments, 5th and 6th, revived 1499
Reorganization 264
United States Naval Reserve
Naval Aviator in Reserve. H. C. Reisinger 381
Quality, High, of Our Reserve. H. C. Reisinger. 1526
Supply Corps, Training Reserve. J. J. Lennox .. 647
United States Navy
Amalgamation and consolidation 121, 702

United States Navy (Cont.)
Building program: Comments, criticisms, 118, 120, 263 265, 317, 418–20, 700, 850–51, 881, 1006–8, 1649
Comparisons 261, 559, 711, 1464
Employment schedules 119, 1158
Father of Navy 145
"Fleet" and "Navy" not synonymous 1033
Maneuvers ..... 1007, 1628, ills. 1284–85, 1490–91
Navy Day 1445, 1497
Palmer's *How Goes the Navy* 446
Personnel: See Personnel
Secretary's report, Editorial on 145
Vessels building. 117, 262, 265, 558, 1005, 1444, 1488
Vessels laid down, 1922–33 848–49
Universal Signal Book, 1818. A. R. McCracken ... 230

V

Van Patten, H. T.: Slide Rule in Navigation. 1104, 1143
Vanderbilt, C. ..... ill. 880
Vanished Ships. C. Lathrop 949
Vessels building: See names of countries
Vickery, H. L.: Philippine Independence from Economic Standpoint 481
Virginia: Maury monument, Richmond ..... ill. 25
Von Berchem, B. 105
Von Hindenburg, P.: Death 1433
Von Spee, G. 939
Voyage of *Sacramento.* W. Macarthur 1061

W

Walden, H. W.: Flying activities ..... 313, ills. 325–32
War
Influence of Public Opinion upon War. B. Anderson 961
Nation in Arms. H. J. Ray 205
Orient, Outlook in 1305
Peace-Time Artificiality. F. G. Percival 1665
Periodicals and international affairs. 146, 1186, 1353
Policies, National, as cause 418
Procurement Planning for War 247, 834
What Price Victory? L. P. Lovette 1073
Writers on 1538
War, Choose Peace or. W. N. Thornton 1377
War debts. European 253, 424, 860, 1145, 1296
War of 1812
Great Lakes naval bases 1337
Hull, W. and I.: Is Defeat Inevitable? E. M. Eller 1201
Warfare, Aërial
Aërial Bombardment of Fleet Bases 100
Air Transport and Security. E. E. Wilson .. 177, 1138
Aircraft Bomb and Naval Gun 245
Bombardment Regulation, Air. W. C. Chambliss 1577
Civilian training .. 564, 709, 720, 1033, 1462, 1500
Co-operation of land and sea forces 1324, 1338
England tests new wrinkles 1456, 1458
Foch re 280
Military aircraft from racing types 281
Pursuit vs. bombers 714
Spotting: English view 1459
Weather and 421, 1171
Warfare, Gas
Civilian training 701, 720
Potency of gases 102, 701
Should Poison Gas Be Legalized? 400
Warships
Admiral Graf Spee (Ger.) 1317
Albany (U.S.) ..... 951, ill. 959
Albatross (It.) 1626
Alert (U.S.) ..... ill. 636

Warships (Cont.)
Andromeda (Eng.) ..... ill. 189
Annapolis (U.S.) ..... ill. 684
Apollo (Eng.) 1448–49
Archimede (It.) 565
Argonaut (U.S.) ..... ills. 195, 1283, 1335
Argonne (U.S.) ..... ills. 878, 1492, 1796
Arkansas (U.S.) ..... ill. 660
Astore (It.) 861
Astoria (U.S.) .. 263, 295, 588, 854, 1308, ills. 1700–1
Aylwin (U.S.) 1309
Bancroft (U.S.) ..... ill. 640
Barham (Eng.) 707
Baron de Kalb (U.S.) ..... ill. 807
Bass (U.S.) ..... ill. 743
Belle Poule (Eng.) ..... ill. 453
Bellerophon (Eng.) ..... ill. 890
Black Hawk (U.S.) ..... ill. 1510
Brandywine (U.S.) ..... ill. 596
Bridge (U.S.) ..... ill. 877
Broome (U.S.) ..... ill. 144
Cachalot (U.S.) 122
California (U.S.) .. ills. 737, 914, 1029, 1351, 1702
Camperdown (Eng.) 1270
Cassin (U.S.) 1773
Centurion (Eng.) ..... ill. 1698
Chandler (U.S.) ..... ill. 914
Chesapeake (U.S.): Later *Severn* ..... ill. 683
Chester ..... ills. 1394, 1661
Chicago (U.S.) .. 118, 1429, ills. 137, 686, 762, 1703
Chillicothe (U.S.) ..... ill. 806
Cincinnati (U.S.) ..... ill. 1657
Clyde (Eng.) 424, 707
Colorado (U.S.) ..... ills. 1072, 1196, 1664, 1751
Comanche (U.S.) ..... ill. 441
Concord (U.S.) ..... ills. 1332, 1726
Conestoga (U.S.) 952
Conquerant (Fr.) 1316, 1450
Constellation (U.S.) ..... ills. 633, 958
Constitution (U.S.) ..... 1206, ills. 595, 598, 1042
Conway (Eng.) ..... ill. 442
Cricket (U.S.) 1543
Cuttlefish (U.S.) ..... 588, 854, ills. 578–79
Cuyama (U.S.) ..... ill. 832
Cyclops (U.S.) ..... 952, ill. 953
Dale (U.S.) ..... ill. 634
Dallas (U.S.) ..... ill. 874
Darwey (Eng.) ..... ill. 1219
De Zeven Provincien (Neth.) 864
Delfim (Port.) 1013, 1019
Detroit (U.S.) ..... ills. 830, 1799
Devonshire (Eng.) ..... ill. 1217
Dewey (U.S.) ..... 1445, 1620, ill. 1494
Drake (Eng.): Ex-*Vivid* 424
Drava (Yugoslav.): Ex-*Enns* (Austrian) ..... ill. 451
Dunkerque (Fr.) 126
Electra (Eng.) 1776
Emanuele Filiberto (It.) 861, 1779
Emile Bertin (Fr.) 1450, 1625
Encounter (Eng.) 859
Enterprise (U.S.) ..... 1620, ill. 639
Epervier (U.S.) 950
Ersatz-Braunschweig (Ger.) 1317
Esk (Eng.) 860
Essex (U.S.) ..... 548, 550, ill. 681
Etna (U.S.) 949
Etoile (Fr.) ..... ill. 351
Exmouth (Eng.) 562, 1623
Fanning (U.S.) ..... 1309, 1401, ills. 1399–1400
Farragut (U.S.) ..... 1158, 1620, ill. 1493
Fortune (Eng.) 1623

Page

Warships (Cont.)

Foudroyant (Fr.) ... ill. 155
Fulton (U.S.) ... 703, 1036
Fury (Eng.) ... 1773
Galatea (Eng.) ... 1449
Galena (U.S.) ... ill. 960
Geier (Ger.): Later *Schurz* (U.S.) 1279, ills. 1281–82
Georges Leygues (Fr.): Ex-*Chateau-Renault* ... 273
Gipsy (U.S.) ... ill. 453
Goeben (Ger.) ... ill. 1600
Golland (Swed.) ... 132
Grampus (U.S.) ... 950
Guerriere (Eng.) ... 1209
Guillaume Tell (Fr.) ... ill. 350
Gunboat No. 7 (U.S.) ... 949
Hannibal (U.S.) ... ill. 28
Hartford (U.S.) ... ill. 688
Hatsukari (Jap.) ... 430, 566
Hatsushimo (Jap.) ... 274
Hebrus (Eng.) ... ill. 351
Henderson (U.S.) ... ill. 503
Hermes (Eng.) ... ills. 453, 1218
Heros (Fr.) ... 1450
Hornet (U.S.) ... 950, ill. 954
Houston (U.S.) ... ills. 139, 192, 1395
Hull (U.S.) ... 421
Hussar (Eng.) ... 1623
I-70 (Jap.) ... 1630
Illinois (U.S.): Replica ... 357, ills. 352–56
Independence (U.S.) ... ills. 440, 444
Indianapolis (U.S.) ills. 764, 1066–70, 1193, 1352 ... 1511
Inflexible (Eng.) ... ill. 1595
Insurgente (Fr.) ... ill. 958
Insurgente (U.S.) ... 949
Iris (Fr.) ... 1778
Jamestown (U.S.) ... ill. 637
John Adams (U.S.) ... ills. 596, 598
Krab (Rus.) ... 197
La Mouche (Fr.) ... ill. 1218
La Psyche (Fr.) ... ill. 153
La Reine Des Deux Scile (Span.) ... ill. 1219
Langley (U.S.) ... ills. 765, 1748
Le Comtesse Emeriau (Fr.) ... ill. 1219
Le Malin (Fr.) ... 273
Levant (U.S.) ... 951
Lexington (U.S.) ... ills. 67, 191, 767, 1043, 1177, 1245–47, 1345–46, 1509, 1795
Litchfield (U.S.) ... ill. 875
Long (U.S.) ... ill. 1069
Louisville (U.S.) ... ills. 1068, 1512
Lowestoft (Eng.) ... 860
Luzon (U.S.) ... ill. 219
Lynx (U.S.) ... 950
Macedonian (U.S.) ... ill. 597
Maine (U.S.) ... ill. 151
Marblehead (U.S.) ... ill. 831
Marietta (U.S.) ... 961
Medusa (U.S.) ... ills. 825, 1726
Melville (U.S.) ... ill. 876
Memphis (U.S.) ... ill. 829
Merrimac, or *Virginia* (Confed.) ... ills. 1241–42
Milwaukee (U.S.) ... ill. 827
Minneapolis (U.S.) ... 295, 1010, 1157, ill. 142
Minnesota (U.S.) ... ill. 1596
Mississippi (U.S.) ... ills. 740, 1535
Missouri (U.S.) ... ill. 1045
Mogami (Jap.) ... 430, 711
Monadnock (U.S.) ... ill. 244
Monaghan (U.S.) ... 1309
Monmouth (Eng.) ... ill. 155

Page

Warships (Cont.)

Monongahela (U.S.) ... ill. 68
Montcalm (Fr.) ... 145
Montecuccoli (It.) ... 1451, 177
Mutsu (Jap.) ... 13
Muzio Attendolo Sforzo (It.) ... 162
Nahant (U.S.) ... ill. 24
Nautilus (U.S.) ... 70
Nelson (Eng.) ... 42
New Hampshire (U.S.): Later *Granite State* ... ill. 44
New Mexico (U.S.) ... ills. 68, 1197, 153
New Orleans (U.S.) ... 853, ill. 149
New York (U.S.) ... ill. 74
Newark (U.S.) ... ill. 68
Nina (U.S.) ... 95
Nokomis (U.S.) ... ill. 2
Northampton (U.S.) ... ill. 76
Olav Trygvarson (Nor.) ... 132
Olympia (U.S.) ... ill. 68
Omaha (U.S.) ... ill. 82
Orion (Eng.) ... 12
Patoka (U.S.) ... ill. 153
Pennsylvania (U.S.) ... ills. 744, 1041, 119
Penquin (Eng.) ... ill. 95
Pensacola (U.S.) ills. 143, 194, 196, 761, 915, 128 ... 166
Pickering (U.S.) ... 949, ill. 95
Plymouth (U.S.) ... ill. 59
Porpoise (U.S.) ... 951, ill. 95
Porter's flagship, Mississippi squadron ... ill. 80
Portland (U.S.) ... ill. 117
Portsmouth (U.S.) ... 533, 133
Preble (U.S.) ... ill. 59
Pruitt (U.S.) ... ill. 14
Queen of the West (U.S.) ... ill. 15
R-4 (U.S.) ... ill. 124
Rail (U.S.) ... ill. 87
Raleigh (U.S.) ... ills. 828, 164
Ramapo (U.S.) ... 1097, 1755, ills. 1094–9
Ranger (U.S.) ... 1011, 1462, 1801, ills. 149, 124
Recruit (Eng.) ... ill. 45
St. Fiorenzo (Eng.) ... ill. 15
Salmon (Eng.) ... 101
San Diego (U.S.) ... ill. 159
San Francisco (U.S.) ... ill. 124
Santee (U.S.) ... ill. 59
Saratoga (U.S.) 949, ills. 138, 141, 600, 766, 119 ... 1333, 1348–49, 1505, 1746–49, 1752, 1794–9
Sava (Yugoslav.): Ex-*Bodrog* (Austrian) ... ill. 45
Savannah (U.S.) ... ill. 59
Schurz (U.S.): Former *Geier* (Ger.) 1279, ills. 1281–8
Scirocco (It.) ... 86
Sea Gull (U.S.) ... 950, ill. 95
Severn (Eng.) ... 424, 70
Shark (Eng.) ... 116
Shaw (U.S.) ... 177
Squadron of evolution, 1889 ... ill. 23
Strasbourg (Fr.) ... 145
Surcouf (Fr.) ... 860, 116
Sydney (Austral.) ... 177
Sylph (U.S.) ... 95
Taigei (Jap.) ... 13
Tallapoosa (U.S.) ... ill. 63
Tejo (Port.) ... 71
Tennessee (U.S.) ... ills. 738, 166
Texas (U.S.) ... ills. 741, 1334, 164
Thames (Eng.) ... 424, 70
Tomotsuru (Jap.) 711, 863, 1011, 1017, 1165, 131
Torricelli (It.) ... 1317, 162
Trenton (U.S.) ... ill. 175
Triomphant (Fr.) ... 86

Page

Warships (Cont.)
Tuscaloosa (U.S.) 122, 1445
U-58 (Ger.) 1401
Utah (U.S.) ..... ills. 1044, 1530
Victoria (Eng.) 1270
Virginia, or *Merrimac* (Confed.) ..... ills. 1241–42
Wasp (U.S.) 949
West Virginia (U.S.) ..... ills. 739, 1178, 1536, 1662
Whitney (U.S.) ..... ill. 873
Wild Cat (U.S.) 950
Woolwich (Eng.) 1623, 1776
Wyoming (U.S.) ..... ills. 638, 657
X-1 (Eng.) 1161
Washington, D.C. ..... ill. 390
Waves: See Oceanography
Wead F. W. 1138
Weapons: Peace-Time Artificiality. F. G. Percival 1665
Weather: See Meteorology
Weems, P. V. H. 1601
Lindbergh Flight, 1933 672
Speaking of Horizons 202
Weems, Mrs. P. V. H. (M. Thackray) 1615
Welch, P. P., and Perry, E. B.: Unruly Rules of Road 641
Weldin, G. C. 257, 1002
Wells, F. H.
Chinese Lines of Communication and Their Effect on Strategy 1519
Chinese Mariners' Compass, Charts, and Methods of Navigation 359
West Indies and war debts 860
West, R. S., Jr. 1764
Westcott, A. 112
Whale food survey 269
Whaleboat, *Marietta's* missing 951
Whaleboats ..... ills. 1558–59
Whalers ..... ill. 1089
Whitemarsh, R. P. 1755
Great Sea Waves 1097
Wiley, H. V.: Value of Airships 665
Willett, H. C. 986
Williams, D.: Higher Standard 171
Williams, H. 247, 834
Willson, R.: Station Keeping 1105
Wilson, E. E. 103
Air Transport and Security 177, 1138
Wilson, E. R.: Retrospection 1715
Wind Scale, Beaufort. F. J. Nelson 1546
Windstorms: See Meteorology
Wood, C. A. 245
Wood, C. C.
Background of Coronel and Falklands 939
Momentous Discrepancies 1225
Working Division. C. E. Perkins 21, 407, 689
World War
Communications: Momentous Discrepancies. C. C. Wood 1225
Coronel and Falklands, Background of. C. C. Wood 939
Dardanelles question. G. J. B. Fisher 732
German Gunboat That Became Yankee. C. C. Hanks 1279
Inland Navy of Austria 105
Jutland, Technical Aspects of. H. G. Brownson 1249
Mistaken Attacks in World War. L. Doughty, Jr. 1729
Pleasure and Pain of 1918. W. H. Michael 1705
Sacramento, Voyage of. W. Macarthur 1061
Submarine Mine-Layer *Krab*. A. Loukine 197
U-58 (Ger.), Capture of. R. B. Carney 1401
Wright, W.: Flying activities ..... 313, ills. 301–5

Y

Yachts
Endeavour (Eng.) 276
Mayflower (U.S.) ..... ill. 880
Race, Painting of 1643
Tai Mo Shan (Eng.) ..... ills. 1286–87
Yangtze Patrol ..... 221, ills. 213–20
Yugoslavia: Assassination of King Alexander 1760